(14)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Restoration of Vidyaranaypura Sahakaranagara via GKVK Double Road near Canara Bank Layout in Ward No. 09, Vidyranyapura Sub Division.*

Estimated Cost: Rs. 49.70 Lakhs

(13)

Name of work : Restoration of Vidyaranaypura Sahakaranagara via GKVK Double Road near Canara Bank Layout in Ward No. 09, Vidyranyapura Sub Division..

Report

Report accompanying the estimate for Restoration of Vidyaranaypura Sahakaranagara via GKVK Double Road near Canara Bank Layout in Ward No. 09, Vidyranyapura Sub Division work is prepared as per PWD Schedule of rates for the year 2014 -15 of Bangalore circle and total cost total cost of the estimate worked out to Rs 49.70 Lakhs. The GKVK double road connecting M.S Palya road and Sahakaranagar near Canara bank layout is completely damaged due the UGD pipe lines laid by BWSSB. This is a main connecting road from Vidyaranyapura to Sahakar nagar having heavy vehicular traffic. The residents of Vidyaranyapura were denuding to improve this road. Hence it is necessary to improve the completely damaged road for easy movement of traffic. Therefore the estimate is prepared with the following provisions as per the site conditions.b The photographas of the damged road enclosed with this estimate.

1) Earthwork excavation for for desilting of drains and removing the overburden soil.
2) Scarifying damaged portion of the road.
3) Removing and refixing the Granite slabs of drain.
4) Providing and laying wet mix macadam for road cut portion and completely damaged portion.
5) Cleaning the road and providing Primer coat.
6) Providing 50 mm BM for road cut portion and damaged portion of the road.
7) Providing and laying 40 mm BC for Asphalting as it is a main and heavy traffic road.
8) Providing 750 mm dia Hume pipes to connect the drains.
9) Disposing the excavated soil.

The total cost of the estimate is worked out to **Rs 49.70 lakhs**. Hence the estimate is submitted to accord Administrative sanction and Technical sanction and to Provide JOB No under special grant for the year 2014-15.

AE
Ward No 09

Asst Executive Engineer
Vidyaranyapura Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Restoration of Vidyaranaypura Sahakaranagara via GKVK Double Road near Canara Bank Layout in Ward No. 09, Vidyranyapura Sub Division.

			Estimate Cost Rs.						4970000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.2 / PWD SR 2014-15**	Cum							
	Drain Desilting								
	Canara Bank Layout Main Road		1	90.00	0.45	0.35	14.18		
	Aurbindo School Road		2	150.00	0.45	0.35	47.25		
	GKVK to NCBS Road		2	325.00	0.45	0.35	102.38		
	Desilting of drain								
	Canara Bank Layout Main Road		2	90.00	1.50	0.20	54.00		
			1	100.00	3.00	0.25	75.00		
	Aurbindo School Road		2	150.00	1.45	0.25	108.75		
	GKVK to NCBS Road		2	325.00	1.55	0.25	251.88		
							652.28	105.84	**69037.00**
	Basic Rate	98.00							
	Area Weightage @8%	7.84							
	Total	**105.84**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	Canara Bank Layout Main Road		1	90.00		1.35	121.50		
	Aurbindo School Road		2	120.00		1.35	324.00		
	GKVK to NCBS Road		2	250.00		1.35	675.00		
							1120.50	58.32	**65348.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				**1120.50**	75.60	**84710.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications, specification No. KSRB 1000, 2300 MOST specification No. 1000/2300, 750 mm dia **No. 244 / Item No. 34.6.4 PWD SR 2014-15**	Mtr							
			4	2.50			10.00		
							10.00	4032.72	**40327.00**
	Basic Rate	3734.00							
	Area Weightage @ 8%	298.72							
	Total	**4032.72**							
5	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet/surface dressing and stacking of old serviceable materials within a lead of 100 meters by manual means including cost of all labour charges complete as per specifications. MORTH chapter 3, **No. 143 / Item No. 19.51 / PWD SR 2014-15**	Sqm							
	Canara Bank Layout Main Road		1	90.00	6.00		540.00		
			1	110.00	3.00		330.00		
	Aurbindo School Road		1	150.00	5.00		750.00		
	GKVK to NCBS Road		1	225.00	2.50		562.50		
			1	100.00	5.50		550.00		
							2732.50	46.44	**126897.00**
	Basic Rate	43.00							
	Area Weightage @ 8%	3.44							
	Total	**46.44**							
6	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 154 / Item No. 20.18 / PWD SR 2014-15**	Cum							
	Canara Bank Layout Main Road		1	90.00	6.00	0.20	108.00		
			1	110.00	3.00	0.20	66.00		
	Aurbindo School Road		1	150.00	5.40	0.20	162.00		
	GKVK to NCBS Road		1	225.00	2.50	0.20	112.50		
			1	100.00	5.50	0.20	110.00		
							559.00	1438.56	**804155.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**1438.56**							
7	KSRRB 500-1. Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5 \, **No. 157 / Item No. 21.1 / PWD SR 2014-15**	Sqm							
	Canara Bank Layout Main Road		1	90.00	6.00		540.00		
			1	110.00	9.00		990.00		
	Aurbindo School Road		1	150.00	6.30		945.00		
	GKVK to NCBS Road		1	325.00	6.50		2112.50		
	Patch Work		6	12.00	4.55		327.60		
							4712.50	12.20	**57511.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
8	KSRRB M500-6: Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 20014-15**	Sqm							
			Qty Vide Item No. 4				**4712.50**	35.21	**165918.00**
	Basic Rate	32.60							
	Area Weightage @ 8%	2.61							
	Total	**35.21**							
9	KSRRB 500-11: Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity; transporting the mixed material in tipper to to achieve the desired density, 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack cost with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **using 100/120 TPH capacity H.M.P with sensor Paver Gr-II (50mm to 75mm) with 3.3 % VG-30 Bitumen, No. 158 / Item No. 21.11.2 / PWD SR 2014-15**	Cum							
	Canara Bank Layout Main Road		1	90.00	6.00	0.050	27.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	110.00	4.20	0.050	23.10		
			1	50.00	3.30	0.050	8.25		
	Aurbindo School Road		1	150.00	6.35	0.050	47.63		
	GKVK to NCBS Road		1	100.00	6.00	0.050	30.00		
							135.63	7482.24	**1014816.00**
	Basic Rate	6928.00							
	Area Weightage @ 8%	554.24							
	Total	**7482.24**							
10	KSRRB 500-9: providing and applying tack coat on granular base such as WBM and WMM surfaces hot bitumen primed at 10 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specifications 5, **No. 157 / Item No. 21.9 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 5				**4712.50**	30.35	**143015.00**
	Basic Rate	28.10							
	Area Weightage @ 8%	2.25							
	Total	**30.35**							
11	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, **With bitumen 80/100, No. 161 / Item No. 21.22.2 / PWD SR 2014-15**	Cum							
	Canara Bank Layout Main Road		1	90.00	6.00	0.040	21.60		
			1	110.00	9.00	0.040	39.60		
	Aurbindo School Road		1	150.00	6.30	0.040	37.80		
	GKVK to NCBS Road		1	325.00	6.50	0.040	84.50		
	Patch Work		6	12.00	4.55	0.040	13.10		
							196.60	11676.96	**2295737.00**
	Basic Rate	10812.00							
	Area Weightage @ 8%	864.96							
	Total	**11676.96**							
12	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 11.90 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				**521.82**	100.94	**52673.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Average weight of earth 1.28 tonne / kg for 2.00X1.28X11.90 = 30.46	30.46							
	PWD SR 2014-15 (P.130 / I.17.1) For loading and unloading	63.00							
		93.46							
	Area Weightage @ 8%	7.48							
	Total	**100.94**							
13	Sub Total								**4920060.00**
14	Third Party Inspection Charges @ 1%								**49201.00**
15	Miscesallaneous Charges	L/S							**739.00**
								Total	**4970000.00**

(8)

(Rupees Fourty Nine Lakhs Seventy Thousand Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
W.O.S

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
30/9/2014.

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092

ADMINISTRATIVELY SANCTIONED FOR Rs. 49.70 lakhs
Rupees Fourty nine lakhs Seventy thousand only
Under P 0601 maintenance and Repairs to Roads (pot hole filling)
Ref ....9....
Subject ...read in
enclosed ...19/...
Dt ...ened
dated 19-1-2015 @ Rs - 49.70 lakhs

Technical Sanction for Rs. 49.70 Lakhs
Fourty Nine Lakhs Seventy Thousand only
09
No. SE/38/14-15, 19-1-15
AE/JE
EE (BTP. Div.)
19/1/2015

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

(7)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, BYATARAYANAPURA DIVISION

Lead Statement for Srinivaspura Dumping Yard for Ward No. 09, Vidyaranyapura Sub Division.

Lead Distance

1.	From BBMP Sub Division office to Devi Circle	1.50 Kms
2.	From Devi Circle to Thirumala Daba	2.00 Kms
3.	From Thirumala Daba to 3rd Cross SBI Bank	2.00 Kms
4.	From 3rd Cross SBI Bank to Sheshadripuram College	0.50 Kms
5.	From Shesadripuram College to Police Station	0.80 Kms
6.	From Police Station to Kogilu Cross	0.60 Kms
7.	From Kogilu Cross to Srinivasapura	4.00 Kms
8.	From Srinivasapura to Dumping Yard	0.50 Kms
	Total	**11.90 Kms**

Certificate:

1. Certified that the Srinivasapura Dumping Yard us the approved dumping yard for ward no. 09 BBMP
2. BBMP Sub Division office Vidyaranyapura is taken as the centre place for calculating the lead distance for ward no. 09.
3. The above distance is the shortest distance for calculating the lead.

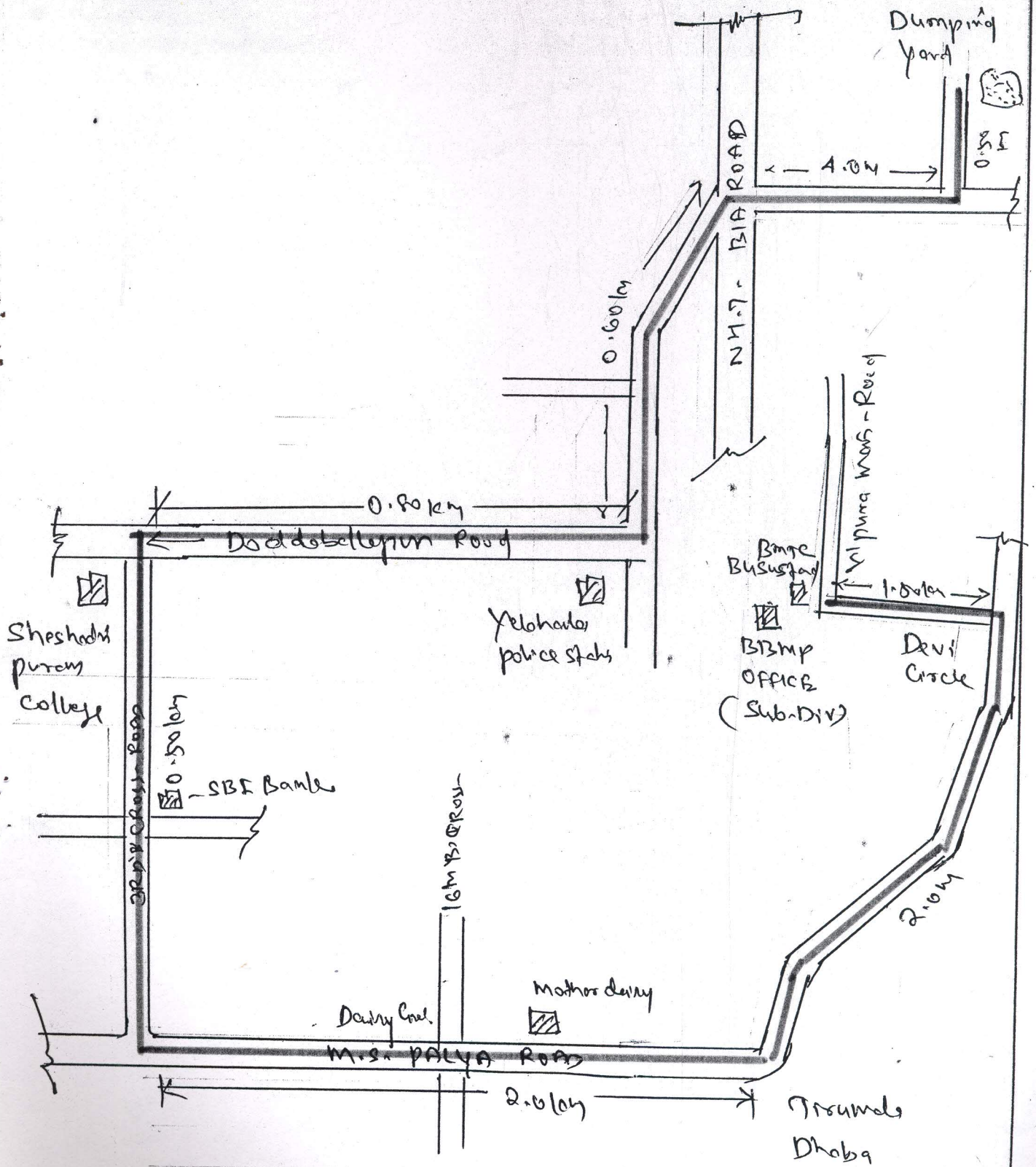
Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward No. 09	Vidyaranyapura Sub Division	Byatarayanapura Division

30/9/2014

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092

LEAD CHART FOR DUMPING YARD FOR WARD NO 09

(4)



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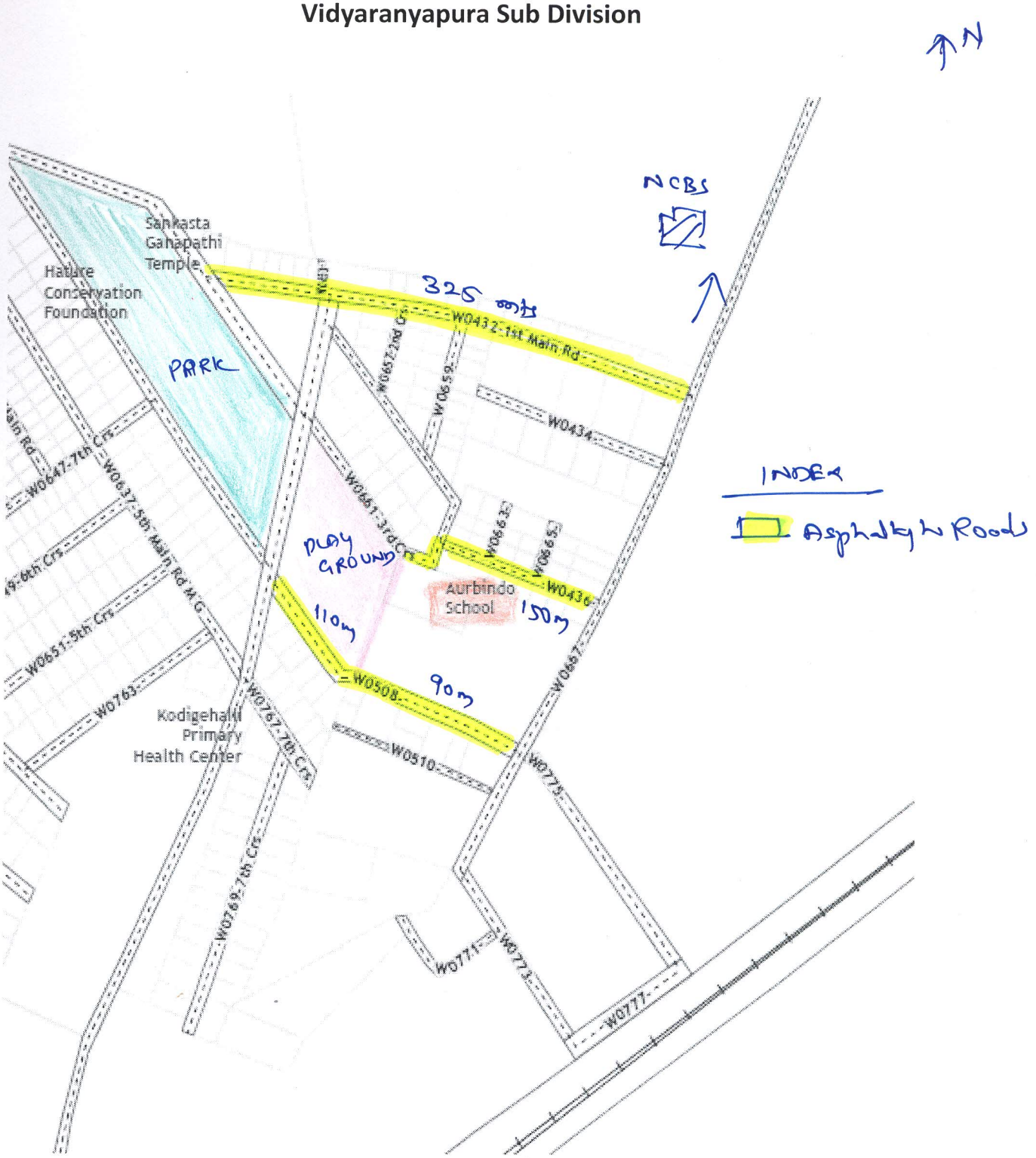
Name of work: Restoration of Vidyaranyapura Sahakarnagara road via GKVK

Double road near Canara bank Layout in ward No 09,

Vidyaranyapura Sub Division



Assistant Engineer
Ward No 09

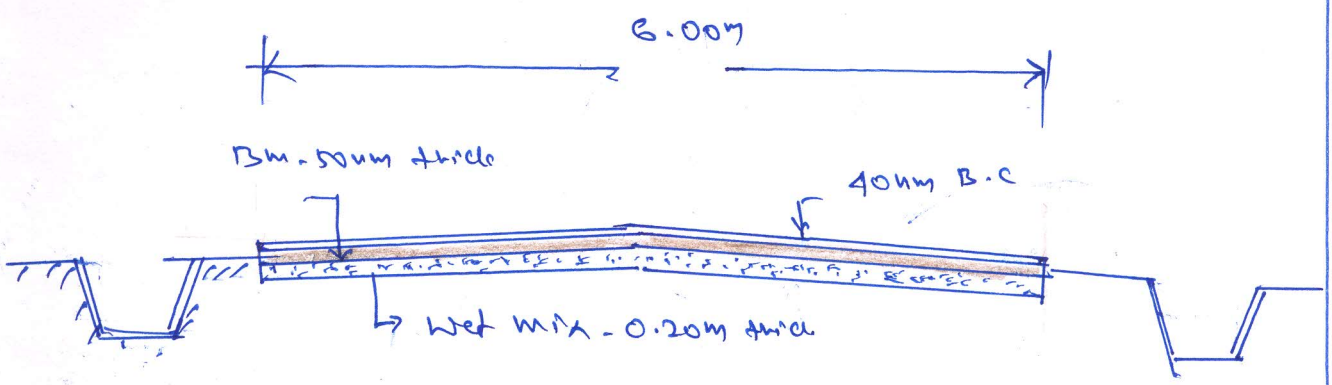
Assistant Executive Engineer
Vidyaranyapura Sub Division, BBMP

Name of Work :- Re-Structuring of Vidyaranyapura - Sahakaranagar

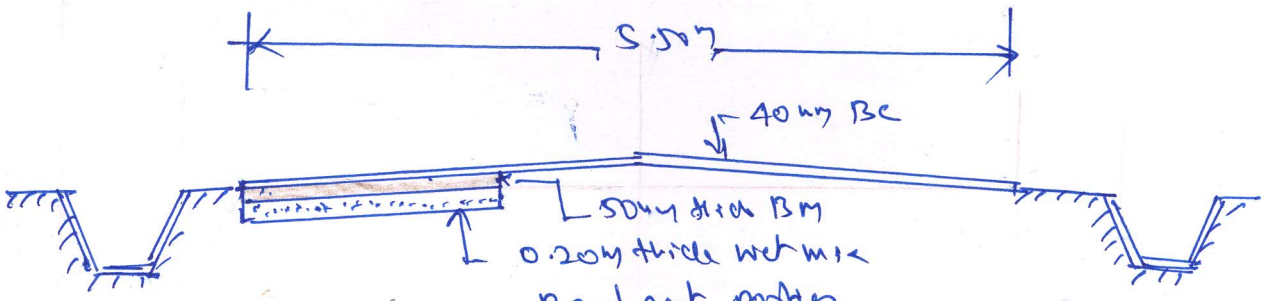
W.C. - Gravel - Double Road near Canara Bank

Layout in Ward No. 09 of Vidyaranyapura

Sub-Division



CROSS-SECTION of ROAD AT AA'



C/S of ROAD AT BB'

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97